

IN THE SPECIFICATION:

Please amend paragraphs [001], [004], [006], [015], [021], [031], [032], [035], [039]-[044], [047], [050], [055]-[057], [062] and [063] and heading of the specification as shown below, in which deleted terms are shown with strikethrough and added terms are shown with underscoring.

Paragraph [001]

The present invention relates to a seat for a vehicle, preferably ~~relate~~ to a vehicle seat which ~~slides~~ with respect to a floor of the vehicle, and which is equipped with a seat position detector. More specifically, the present invention relates to a seat position detection unit, which measures the position of the seat.

Paragraph [004]

In this seat position detection unit, a magnetometric sensor is provided on the stationary rail, and a detecting object that can be detected by the magnetometric sensor is provided on the movable rail.

Paragraph [006]

In this seat position detection unit, ~~the~~ a more improved positional accuracy between the magnetometric sensor and the floor of the vehicle is required in order to detect whether the seat is positioning at the prescribed position with accuracy. To be more precise, the detecting object has to be provided on the stationary rail with superior positional and locational accuracy.

Paragraph [015]

Thereby, when assembling the seat position detection unit, the positioning step, in which the accurate positioning of the position sensor or the detecting object is performed, can be omitted. Thus, the workability of the assembling of the seat position detection unit will be improved. Additionally, the seat position detecting object can measure whether the seat is

positioning positioned at the prescribed position.

Paragraph [021]

FIG. 5 is a perspective view showing ~~the~~ a conjugated bracket.

Paragraph [027]

A seat position adjustment device 13, which adjusts the position in the fore-and-rear directions of the ~~seat11~~ seat 11, is provided at the inner surface of the movable member 15.

Paragraph [031]

As can be seen from FIG. 1, the stationary member 14 is provided on the base member 12 in the condition that ~~the~~ both longitudinal ends of the stationary member 14 ~~is~~ are located along the fore-and-rear directions of the seat 11. A fore-side end of the stationary member 14 is attached to the base member 12 through the conjugated bracket 18, which is fixed to the base member 12 by a bolt 20. A rear-side end of the stationary member 14 is attached to the base member 12 through the stationary bracket 19, which is fixed to the base member 12 by a bolt 20 (FIG. 2) (not shown).

Paragraph [032]

In the present embodiment, a pair of base members 12 and 12 is provided under the seat 11. Here, one of the base members 12 and 12 is located at the left side of the seat 11, the other of the base members 12 and 12 is located at the right side of the seat 11. In the present invention, therefore, the stationary members 14 ~~is~~ are placed on the respective base members 12 so that the stationary members 14 and 14 are parallel with each other.

Paragraph [035]

As shown in FIG. 4, the position sensor 17 is disposed at an inner wall of the movable member 15 through the sensor mounting bracket 16. In other words, the sensor mounting bracket 16 is disposed at the movable member 15 so that the position sensor 17 is positioned between ~~a~~

pair of the movable members 15 and 15, which are provided at the bottom of the seat 11, and is positioned at in the vicinity of the stationary member 14.

Paragraph [039]

The position sensor 17 detects the presence of the conjugated bracket 18 (a magnetic interception bracket 18b), when the detection part 17b is slid in response to ~~the slide~~ sliding of the seat 11 and the conjugated bracket 18 (the magnetic interception bracket 18b) is positioned at the region between the magnet 17e and the magnet sensor 17f. In this occasion, a detection signal representing the presence of the conjugated bracket 18 (the magnetic interception bracket 18b) is supplied from the sensor body 17a through a cable 25 (FIG. 1), which is connected to the cable connection part 17c.

Paragraph [040]

The sensor mounting bracket 16 is formed from a plate member covered with a resin material. This sensor mounting bracket 16 is connected to the movable member 15 through a base 16a, which is formed by bending one end of the plate member vertically with respect to a principle principal part 16b and is integrated with the movable member 15. The other end of the plate member is bent vertically with respect to the principle principal part 16b and serves as a protector 16d. Here, the extending direction of the base 16a and the extending direction of the protector 16d becomes upside down with each other.

Paragraph [041]

A pair of through holes 16c and 16c is bored on the principle principal part 16b of the sensor mounting bracket 16. Thereby, by screwing ~~each~~ of a screw 26 to each through-hole 16c and each screw-hole 17d, respectively, the position sensor 17 is fixed to the sensor mounting bracket 16. As can be seen from FIG. 4, the upper surface and the side surface of the position sensor 17 is are protected by the sensor mounting bracket 16 and the stationary member 14.

Paragraph [042]

As shown in FIG. 5, the conjugated bracket 18 is composed of a stationary bracket 18a, a magnetic interception bracket 18b, and a connection part 18c. In this conjugated bracket 18, the stationary bracket 18a, and the magnetic interception bracket 18b are provided as a single piece piece.

Paragraph [043]

The magnetic interception bracket 18b is extending extends in the vertical direction from the connection part 18c so that the magnetic interception bracket 18b is positioned at the region between the magnet 17e and the magnet sensor 17f, when the seat 11 is positioned at the prescribed position. The stationary bracket 18a is extending extends in the obliquely downward direction so that the stationary bracket 18a is positioned at the suitable position and direction with respect to the base member 12.

Paragraph [044]

In the present embodiment, the conjugated bracket 18 is made of a ferromagnetic material, such as iron, which cuts off the magnetic line directed to the magnet sensor 17f from the magnet 17e. In other words, a ferromagnetic material, which can prevent the penetration of the magnetic line, is adopted as the conjugated bracket 18.

Paragraph [047]

Next, the motion of the seat position detection unit 10 will be explained. When the user pulls up the lever 13a and releases the fixation of the movable member 15 to the stationary member 14. The the seat 11 is allowed to slide in the fore-and-rear directions.

Paragraph [050]

Thereby, the position sensor 17 detects the presence of the conjugated bracket 18 by detecting that the magnetism is not detected by the magnet sensor 17f. That is, it is judged that the seat 11 is positioning positioned at the prescribed position.

Paragraph [055]

Additionally, if the conjugated bracket 18 is attached from the fore-side with respect to the seat 11, since the operation is easily performed, the conjugated bracket 18 can be positioned in a proper position with ~~highly~~ high accuracy. Thereby, the magnetic interception bracket 18b will be easily positioned in the proper position with more improved accuracy.

Paragraph [056]

In the present invention, whether the seat 11 is ~~positioning~~ positioned at the prescribed position is detectable. In this occasion, since the signal representing that the seat 11 is ~~positioning~~ positioned at the prescribed position is supplied from the position sensor 17, this signal can be utilized in ~~the~~ an airbag apparatus.

Paragraph [057]

For example, if the deployment of the airbag is controlled based on this signal, the rate and force of the deployment of the airbag can be decreased when the seat 11 is ~~positioning~~ positioned at the forefront.

Paragraph [062]

Although there have been disclosed what ~~are~~ is the ~~patent~~ present embodiment of the invention, it will be understood by persons skilled in the art that variations and modifications may be made thereto without departing from the scope of the invention, which is indicated by the appended claims.

Paragraph [063]

In the present invention, any ~~types~~ type of ~~sensors~~ sensor can be adoptable as the position sensor 17, as long as it can detect the position of the seat 11. For example, a detector adopting a light sensor or an ultrasonic sensor may be applicable instead of the detection part 17b adopting a magnet sensor.